

Tank Waste Committee (TWC)

<u>Oct-Dec 2021</u>	<u>Jan-Mar 2022</u>	<u>Apr-Jun 2022</u>	<u>Jul-Sep 2022</u>
<p><u>HAB Meeting</u>: Oct 20 (meet & greet plus orientation)</p> <p><u>Committee Call</u>: Oct 26 placeholder</p> <p><u>TWC Meeting</u>: Nov 17</p> <p><u>HAB Meeting</u>: Dec 15-16</p>	<p><u>Committee Call</u>: Jan 25 placeholder</p> <p><u>TWC Meeting</u>: Feb 89</p> <p><u>HAB Meeting</u>: Mar 23-24</p> <p><u>Committee Call</u>: Mar 29 placeholder</p>	<p><u>TWC Meeting</u>: Apr 13</p> <p><u>COTW</u>: May 17</p> <p><u>Leadership Workshop</u>: May 18-19</p> <p><u>HAB Meeting</u>: Jun 22-23</p> <p><u>Committee Call</u>: Jun 28 placeholder</p>	<p><u>TWC Meeting</u>: Aug 10</p> <p><u>HAB Meeting</u>: Sep 21-22</p>
<ul style="list-style-type: none"> • Standing Items <ul style="list-style-type: none"> ○ Adopt last meeting summary ○ Open Forum ○ Committee business 	<ul style="list-style-type: none"> • Standing Items <ul style="list-style-type: none"> ○ Adopt last meeting summary ○ Open Forum ○ Committee business 	<ul style="list-style-type: none"> • Standing Items <ul style="list-style-type: none"> ○ Adopt last meeting summary ○ Open Forum ○ Committee business 	<ul style="list-style-type: none"> • Standing Items <ul style="list-style-type: none"> ○ Adopt last meeting summary ○ Open Forum ○ Committee business
<ul style="list-style-type: none"> • Topics <ul style="list-style-type: none"> ○ DFLAW critical path update ○ B-109 leak response & T-111 active leaker ○ System Plan 10 ○ Status and discussion of Waste Management for C Tank Farms (NRC recommendations) ○ GAO recommendation to involve public in tank closure technical discussions 	<ul style="list-style-type: none"> • Topics <ul style="list-style-type: none"> ○ DFLAW critical path update ○ Update on AX-103 & AX-101 retrieval start and status (Peggy Hamilton – 2022) ○ Grout IM team briefing ○ Test bed initiative – status, discussion, and DOE’s path forward ○ Non-HLW discussion to HAB and follow on ○ Holistic negotiations – results & recommendations ○ B-109 leak response & T-111 active leaker 	<ul style="list-style-type: none"> • Topics <ul style="list-style-type: none"> ○ DFLAW critical path update ○ Conditions under which grout at Hanford is acceptable ○ Non-HLW discussion to HAB and follow on ○ Holistic negotiations – results & recommendations 	<ul style="list-style-type: none"> • Topics <ul style="list-style-type: none"> ○ DFLAW critical path update ○ Grout IM team briefing ○ Conditions under which grout at Hanford is acceptable

Draft Agenda & Framing Questions for First Quarter TWC Meeting – November 2021

	Time	Topic	Framing Questions	Documents	People
1	9:00 am 15 minutes	Opening (agenda review, past meeting summary, announcements)			
2	9:15 am 60 minutes	Block #1			
3	10:15 am 15 minutes	BREAK			
4	10:30 am 60 minutes	Block #2			
5	11:30 am 75 minutes	LUNCH			
6	12:45 pm 60 minutes	Block #3			
7	1:45 pm 15 minutes	BREAK			
8	2:00 PM 60 minutes	Open Forum			
9	3:00 pm 15 minutes	BREAK			
10	3:15 pm 45 minutes	Committee Business			
11	4:00 pm	ADJOURN			

Expanded TWC Work Plan Issues - Suyama, June 2021

#	Topic	Committee Areas of Interest
1	Direct-Feed Low-Activity Waste <ul style="list-style-type: none"> Central Plateau Waste Treatment Facility TSCR operations Melter heat-up Critical path update Waste transmission lines 	<ul style="list-style-type: none"> DFLAW Critical Path – Update at each TWC Meeting DFLAW: In Depth End to End “Waste to Glass” How it operates (Eric Olds) Off-gas and mass balance calculation discussion Mass Flow Sheet with Volumes for Waste to Glass TSCR updates TSCR Resin Canister Disposition → New Hanford Orphaned Waste Integrity testing of Site Transfer Lines and related issues Operations at IDF (rad levels and Dose, Anti-C’s, ILAW Off-gasing) DFLAW Recovery Mode processes, plans and priorities - How do we get back up and running from an off-normal event?
2	A/AX Farms retrievals	<ul style="list-style-type: none"> AX-102 & AX-104 Follow-up - Residual Analysis results, how much waste if left in tank, decision on 3rd Technology (Peggy Hamilton – August 2021) Update on AX-103 & AX-101 Retrieval Start and Status (Peggy Hamilton – 2022)
3	Low-level Waste Offsite Disposal (includes grout)	<ul style="list-style-type: none"> Grout. Issues and overall look at the situation – Grout IM Team Test Bed Initiative – Status, discussion and DOE’s Path Forward
4	Emerging Issues <ul style="list-style-type: none"> Tank waste classification Reports 	<ul style="list-style-type: none"> Non-HLW Discussion to HAB and follow-on Roundtable Board discussion Basis for HLW definition of estimated cost savings Holistic Negotiations - Results and recommendations Status and discussion of Analysis of Alternatives – DOE-HQ Initiative for HLW & pre-treatment
5	Tank Integrity	<ul style="list-style-type: none"> B-109 Leak Response and T-111 Active Leaker (13,000 gals Interstitial Liquids + 2,000 gals on Top of Saltcake) Actions to prevent tanks from failing (actions for SSTs and DSTs are different) Actions to increase confidence that tanks won’t fail Knowing when a tank fails Tank Leak Response Plan vs Emergency Pumping Guide Tank Integrity (document review & discussion from IM team)
6	System Plan 10	<ul style="list-style-type: none"> How the System Plan addresses potential tank failures/need for new tanks Discussion of Potential Scenarios for System Plan 10
7	Tank Closures	<ul style="list-style-type: none"> Composite Analysis and Performance Assessment Status and discussion of Waste Management for C Tank Farms (NRC Recommendations) Status and discussion of Cumulative Impacts Report

Topics and Framing Questions from FY2021 TWC Work Plan**Standard Framing Questions from FY2021 HAB Work Plan**

- Are there decisions or milestones coming soon?
- What is the project schedule, or do you expect delays?
- Is there funding?
- When will work start?
- Are there opportunities for Board input?
- Are there changes occurring?
- Is there any new technology needed?
- What is the risk/benefit?
- How does this project support the overarching Hanford Site vision?

Topic Number (for reference)	Agenda Topic	Framing Questions & Background Notes	Issue Managers	Agency Staff
1	Name: 242-A Evaporator Next meeting: Update in Spring 2021?	Framing Questions <ul style="list-style-type: none"> • Update 	Shelley Cimon, Lead Rob Davis Liz Mattson Vince Panesko Dan Solitz Bob Suyama	
2	Name: “Actionable Advice”	Framing Questions <ul style="list-style-type: none"> • What does “actionable advice” mean for TWC? 		
3	Name: Composite Analysis and Performance Assessments Next meeting: Composite Analysis is a joint topic with RAP	Framing Questions <ul style="list-style-type: none"> • What is the Composite Analysis? • Annual report under TPA milestone (joint with RAP) • How does the Composite Analysis and Performance Assessments (PAs) relate to materials that will end up in disposal sites, such as secondary waste in IDF. • Recent Ecology letter regarding the A/AX tank farm PA dealing with risk, exposure pathways, boundaries, and COCs • What is the next step at C Farm and related WIR? • Is the plume under C Farm from somewhere else (e.g., ancient lakebeds)? 		

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4	Name: Contracting – Operations & End State Approach Next meeting: Joint topic with BCC	Framing Questions & Background <ul style="list-style-type: none"> Understanding the contract structure How are they working? Does an end state approach vs. a traditional approach work best for the new combined contract for DFLAW and tank farm operations? What are the implications of the two approaches? Open discussion to share viewpoints 		
5	Name: Direct-Feel Low-Activity Waste (DFLAW) Critical Path Next meeting: Standing update at TWC meetings	Framing Questions & Background <ul style="list-style-type: none"> Update 		
6	Name: Effluent Treatment Facility (ETF) and Liquid Effluent Retention Facility (LERF)	Framing Questions & Background <ul style="list-style-type: none"> Update Issue flagged at Dec 8, 2020 PIC meeting for potential TWC presentation & discussion 		
7	Name: GAO Report	Framing Questions & Background <ul style="list-style-type: none"> Summary here: U.S. GAO - Hanford Cleanup: DOE's Efforts to Close Tank Farms Would Benefit from Clearer Legal Authorities and Communication HAB Products <ul style="list-style-type: none"> Should TWC develop draft advice? 		

Topic Number (for reference)	Agenda Topic	Framing Questions & Background Notes	Issue Managers	Agency Staff
8	Name: Grout	Framing Questions & Background <ul style="list-style-type: none"> • Use of grout • WCS potential • NAS analysis • Technetium and Iodine – potential sticking points for on-site disposal at Hanford. Have these issues been resolved? • Congressional study and high-level waste interpretation • Basis for cost & savings numbers? Class 5 estimates • Criteria & issues of concern. Comparing technologies • What are the issues? • How we ended up where we are with vitrification and agreements that have been made • Overall look at the situation 	Jeff Burright, lead Pam Larsen Liz Mattson Marissa Merker Vince Panesko Gerry Pollet Jacob Reynolds Dan Solitz Bob Suyama Steve Wiegman	
9	Name: High-Level Waste (HLW) Analysis of Alternatives			
10	Name: Holistic Negotiations	Framing Questions & Background <ul style="list-style-type: none"> • What are the results of the holistic negotiations? 		
11	Name: Integrated Disposal Facility (IDF)	Framing Questions & Background <ul style="list-style-type: none"> • 10 of waste in IDF is unidentified. What are the impacts of this? 		
12	Name: Infrastructure, Piping, and Site Transfer of Waste	Framing Questions <ul style="list-style-type: none"> • Integrity testing program of site transfer piping • Cross-site transfer line status and related issues • Historical knowledge helpful 		
13	Name: Institutional Controls vs. Engineered Controls	Framing Questions <ul style="list-style-type: none"> • Assumptions about future of the site and “control” 		
14	Name: Off-gas and mass balance			

Topic Number (for reference)	Agenda Topic	Framing Questions & Background Notes	Issue Managers	Agency Staff
15	Name: System Plan 9	Framing Questions <ul style="list-style-type: none"> What is the rest of the story? How does the System Plan address potential tank failures and the need for new tanks? (see appendix in the System Plan to clarify assumptions) 		
16	Name: Tank Integrity	Framing Questions <ul style="list-style-type: none"> Tank integrity briefing Results and decisions from studies on repairing tanks Emergency pumping guide 	Bob Suyama, lead Steve Anderson Jeff Burright Phil Lemley Liz Mattson Vince Panesko	
17	Name: Tank Retrieval	Framing Questions <ul style="list-style-type: none"> Tank retrieval Third technology Performance Assessment findings 		
18	Name: Tank-Side Cesium Removal (TSCR)	Framing Questions <ul style="list-style-type: none"> Briefing How does TSCR improve the mixing process? 		
19	Name: Technetium and Iodine Removal	Framing Questions <ul style="list-style-type: none"> Refresher on the issues How do Performance Assessments get built? What is the history of Tc & I separation in the WTP? Why was it decided not to do Tc & I separation? What technologies are out there? What would you do with Tc & I if you could separate it? How to handle Tc & I as secondary waste that escapes as steam. (NRC made the point that steam separation of Tc & I is a pretty effective way to get them out of LAW.) 		
20	Name: Waste Disposition: Transuranic Waste (TRU)	Framing Questions & Background <ul style="list-style-type: none"> Disposition of TRU that may be in the tanks 		

Topic Number (for reference)	Agenda Topic	Framing Questions & Background Notes	Issue Managers	Agency Staff
21	Name: Waste Disposition: Vitrified Waste and All Waste Streams	Framing Questions & Background <ul style="list-style-type: none"> Disposal paths and timelines 		
22	Name: Waste Incidental to Reprocessing (WIR) for Vitrified Low-Activity Waste (VLAW)	Framing Questions & Background <ul style="list-style-type: none"> Reclassification of specific volume of waste Not mixing with other High-Level Waste (HLW) HAB Products <ul style="list-style-type: none"> Advice? 		
23	Name: Waste Treatment Plant (WTP)	Framing Questions & Background <ul style="list-style-type: none"> Basic overview: <i>How Did We Get Here?</i> Collaborative presentation of information from Ecology, DOE, and perhaps others (e.g., EPA, ODOE) What are the phases for commissioning? Update on progress (plant, people, construction, legacy software/hardware) What are final destination(s) of different waste types? 		
24	Name: Key upcoming dates: Public Comment Period: <i>insert dates and link to fact sheet or website, if appropriate</i> Next meeting: <i>indicate what meeting this topic will be discussed and time needed</i>	Policy Issue(s) <ul style="list-style-type: none"> . Framing Questions <ul style="list-style-type: none"> . HAB Products <i>(may include due dates)</i> <ul style="list-style-type: none"> . <i>Keep this short/concise (not a laundry list) and focused on</i> <ul style="list-style-type: none"> <i>Identifying policy-level issues related to the topic</i> <i>What information is needed to understand the topic to inform HAB work on this issue related to the policy-level issues</i> <i>What product(s) the HAB intends to produce related to this topic</i> 		